CHAMPION FARMS
FARMSTEAD MANAGEMENT PLAN

There are two separate facilities used by Champion Farms. The main facility is located on Champion Road near Clinton and the second is a heifer facility referred to as the McDonald Farm located on Sharman Road in the Town of Augusta.

MAIN FARM:

Water Sources:

Present condition: There is one well located in front of the main dairy barn. Cows do not have access to this area and there is no potential for contamination from pollution sources. There are two wells located at the original dairy barn. Both wells are located upslope of any pollution sources and livestock do not have access to the area.

Resource concerns: There are no resource concerns in this area.

Planned action: None planned for this area.

Animal Housing Facilities:

Present condition:

Cow facilities:

Champion Farms is currently milking ~756 cows three times a day in a double 10 parlor. The cows are confined to the freestall barn year-round. Approximately 18 yards of sawdust is used for bedding every week. Manure is scraped with alley scrapers to the middle of the barn and is conveyed by a concrete transfer channel to a hopper located east of the barn. From the hopper, the manure can be sent to either of the two waste storage facilities via 36" pipes. There is a 36" transfer pipe located at the north end of the west wing of the freestall that sends manure to a hopper and then the original (northern) waste storage facility through a 36" pipe.

Dry cow facilities:

Approximately 88 dry cows are kept in a freestall barn located northeast of the original barn. 9 yards of sand is used every week for bedding. The manure from this barn is scraped to the south end of the barn with a skid steer and spread daily (1 load/day).

Heifer facilities:

160 bred heifers are housed in the freestall barn with the dry cows. Another 120 heifers are housed in the original dairy barn. 4 yards of sawdust and 20 bales (50#) chopped hay are used every week for bedding. Manure is collected (with gutter cleaners) at the south end of the barn in a covered spreader room. This manure is spread daily (1 load/day).

Calf facilities:
60 calves are housed in a greenhouse located east of the original dairy barn. They range in age from newborn to weaned (8 weeks). Bedded pack manure is cleaned out with a skid steer as the pens are emptied and land applied with a box spreader.

Resource concerns: Manure is loaded from the dry cow and heifer barn on a concrete pad located at the southern end of the barn. There is the potential for manure in the loading area to mix with rainwater falling on the pad. The concrete pad slopes toward the driveway and the road ditch.

Planned action: Any manure spilled during loading will be cleaned up immediately.

All required Operation & Maintenance practices will be completed as required (see O & M section of the CAFO plan where O & M standards have been provided). O & M components for planned practices will be provided to the farm operator and reviewed with him once the planned practices have been installed.

Milkhouse Waste:

Present condition: Milkhouse, parlor, and holding area wastewater go to a concrete transfer channel running through the middle of the freestall. It is conveyed with manure from the barn to one of the two waste storage facilities by 36" pipes. It is estimated that approximately 750,000 gallons of wastewater are produced annually.

Resource concerns: There are no resource concerns in this area.

Planned action: None planned for this area.

All required Operation & Maintenance practices will be completed as required (see O & M section of the CAFO plan where O & M standards have been provided). O & M components for planned practices will be provided to the farm operator and reviewed with him once the planned practices have been installed.

Silage Storage:

Present condition: There are 2 Harvestore tower silos at the original farm that are used to store high moisture corn. In addition, there are 3 bunk silos for corn silage and haylage. The original bunk is located on the south side of Champion Road. It is 120' by 280' (33,600 sq. ft.) and has a concrete/ asphalt floor and concrete walls along the north and south sides. The 2nd bunk is on the north side of Champion Road. It is 60' by 200' (12,000 sq. ft.) with an asphalt floor and has a concrete wall along the east side only. The third and newest bunk is located on the south side of Champion Road across the road from the original farmstead. It is 300' x 300' (90,000 sq. ft.) in size. There are no walls. The floor

is asphalt. The new bunk was constructed in the fall of 2014. The bunk silos have a leachate collection system that was installed in 2011. The leachate collection system for the 2nd bunk was designed by F. Rinaldo (NRCS P.E.). The leachate collection system for the original bunk was designed by D. Lynch (SWCD P.E.). These collection systems were installed at the same time and utilize the same storage lagoon and vegetated treatment area (VTA) for the diluted high flows. All flow off of the new bunk is directed to the southeast corner of the bunk as there are two asphalt curbs along the east and south sides of the new bunk to collect any runoff.

Resource concerns: There is no concern with the tower silos that store high moisture corn. The original and 2nd bunks have functioning leachate collection and treatment systems. The new bunk does not currently (11/21/14) have a functioning silage leachate collection and treatment system in place. Any flows off the bunk flow into the adjacent hay field. **NOTE:** (On 11/20/14 there was no evidence of any kill zone in the hay field. The corn silage is covered with a plastic tarp, which is helping to minimize the leachate from the silage pile.)

Planned action: A high/low flow collection box is planned for the southeast corner of the bunk. A 2,000 gallon concrete tank will collect any concentrated low flow leachate. Diluted high flows will be directed via a 12" pipe approximately 500 feet to the existing high flow storage lagoon located south of the original bunk. There is enough room adjacent to the existing VTA to allow expansion of the VTA to meet the size requirements in the NRCS standard with the new bunk figured into the calculations.

All required Operation & Maintenance practices will be completed as required (see O & M section of the CAFO plan where O & M standards have been provided). O & M components for planned practices will be provided to the farm operator and reviewed with him once the planned practices have been installed.

Waste Storage Structures:

Present condition: The original (northern) earthen pit was constructed in 2002 with NRCS technical assistance. It has a total capacity of 2,240,000 gallons. Manure is loaded at the southwest corner of the pit. The new (southern) earthen pit was constructed in 2006 with NRCS an SWCD technical assistance. It has a capacity of 2,000,000 gallons. Manure is loaded along the western side of the pit. Both pits have fences around them. The two pits combined have approximately 6 months of storage for the farm. As-builts for the pits are available at the farm office. Both pits were designed and certified by a professional engineer.

Resource concerns: There are no resource concerns in this area.

Planned action: No action planned.

All required Operation & Maintenance practices will be completed as required (see O & M section of the CAFO plan where O & M standards have been provided). O & M components for planned practices will be provided to the farm operator and reviewed with him once the planned practices have been installed.

Roofwater Management:

Present condition: Roofwater from the east side of the main freestall goes into a grassed diversion. The water is collected in a WASCOB (Water and Sediment Control Basin). It then goes into an underground outlet, which ends up west of the farmstead in the perennial stream channel. Roofwater on the west side of the dry cow barn goes into a ditch which runs along the north side of the barn and ends in a vegetated field (pasture north). The rest of the farm does not have any concerns with roofwater because it does not mix with feed and/or manure.

Resource concerns: There are no resource concerns in this area.

Planned action: None planned for this area.

All required Operation & Maintenance practices will be completed as required (see O & M section of the CAFO plan where O & M standards have been provided). O & M components for planned practices will be provided to the farm operator and reviewed with him once the planned practices have been installed.

McDONALD FARM:

Water Sources:

Present condition: The well is located east of the barn. There are no contaminant sources near or upslope of the well.

Resource concerns: There are no resource concerns in this area.

Planned action: None planned for this area.

Animal Housing Facilities:

Present condition: Approximately 70 heifers are kept in an older dairy barn that has a freestall addition. Manure is scraped with a skid steer to 2 push-offs located at the north end of the barn and daily spread (2-3 loads/week). Approximately 3.5 yards of sawdust is used for bedding every week.

Resource concerns: There are no resource concerns in this area.

Planned action: None planned for this area.

Silage Storage:

Present condition: There is a 50' by 150' (7500 sq. ft.) bunk silo. The floor is asphalt and there are no walls. There is no leachate collection system. The 1 existing tower silo is not used.

Resource concerns: Currently, silage leachate pools in a small depressions on the sides of the bunk. There is no observed kill zone extending from the bunk.

Planned action: The bunk will have (2) 6 inch concrete roll curbs to direct any leachate and rainwater runoff to a screen box. In the screen box, low flows will go to a 600 gallon tank. This tank will be pumped as needed and emptied into the waste storage facilities at the main farm. High flows will be directed to 20' by 300' (6000 sq. ft.) vegetated filter area.

All required Operation & Maintenance practices will be completed as required (see O & M section of the CAFO plan where O & M standards have been provided). O & M components for planned practices will be provided to the farm operator and reviewed with him once the planned practices have been installed.

Roofwater Management:

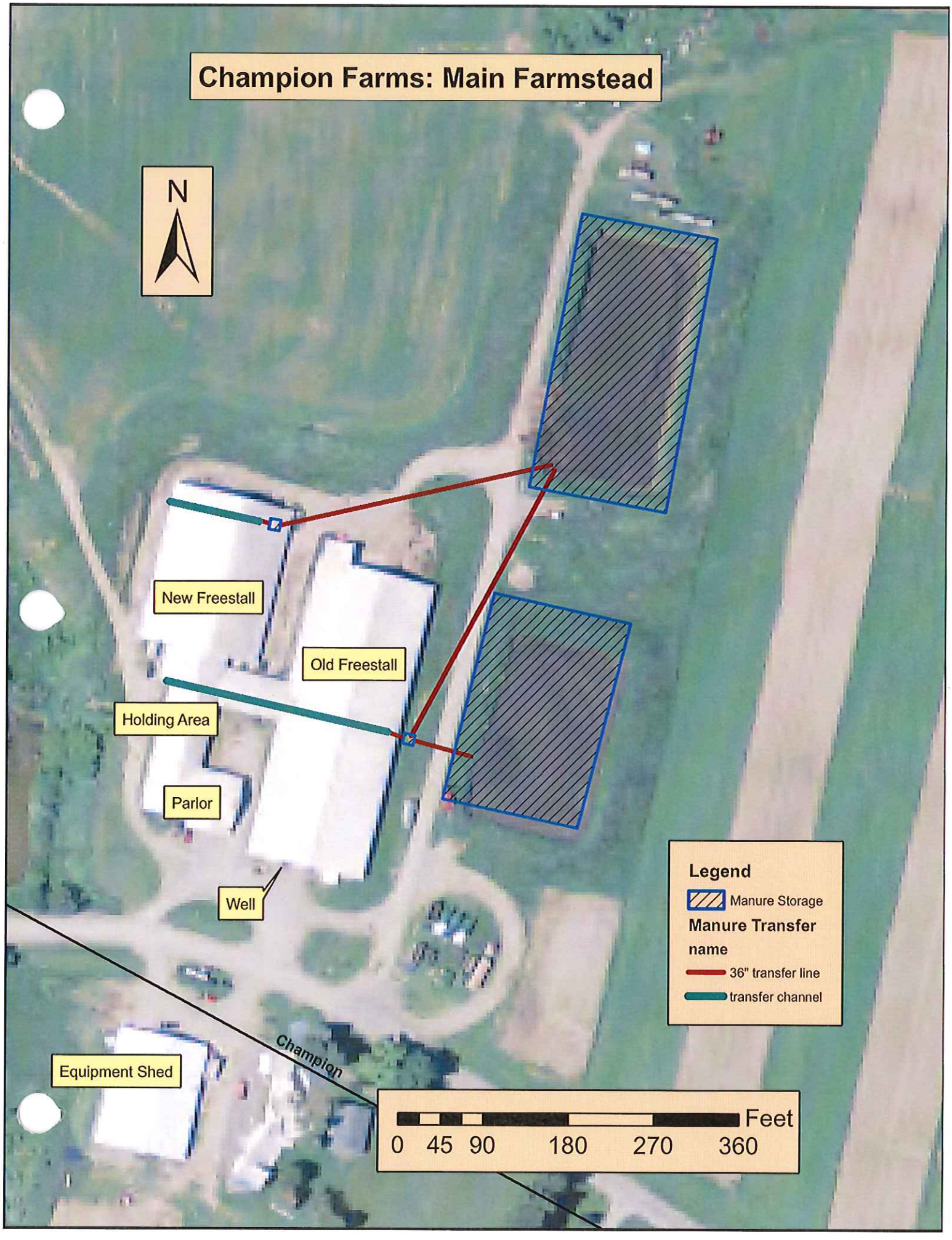
Present condition: The feeding lane on the west side of the barn is covered by an overhang so roofwater does not mix with the feed. Roofwater on the rest of the farm is not a concern because it does not mix with feed or manure.

Resource concerns: There are no resource concerns in this area.

Planned action: None planned for this area.

Note: As-built plans for the waste storage, waste transfer and the silage leachate collection and treatment systems are included in a separate folder with this CNMP.

Note: There are no known cultural resources located on Champion Farm. However, a preliminary NYS Historic Preservation review should be conducted before any major earth disturbances. Also, as a precaution, utilities protection ("Dig Safely New York" at 800.962.7962) should always be contacted 3 days prior to any digging.


Champion Farms: Main Farmstead
N
New Freestall
Old Freestall
Holding Area
Parlor
Well
Equipment Shed
Champion
Legend
Manure Storage
Manure Transfer
name
36" transfer line
transfer channel
Feet
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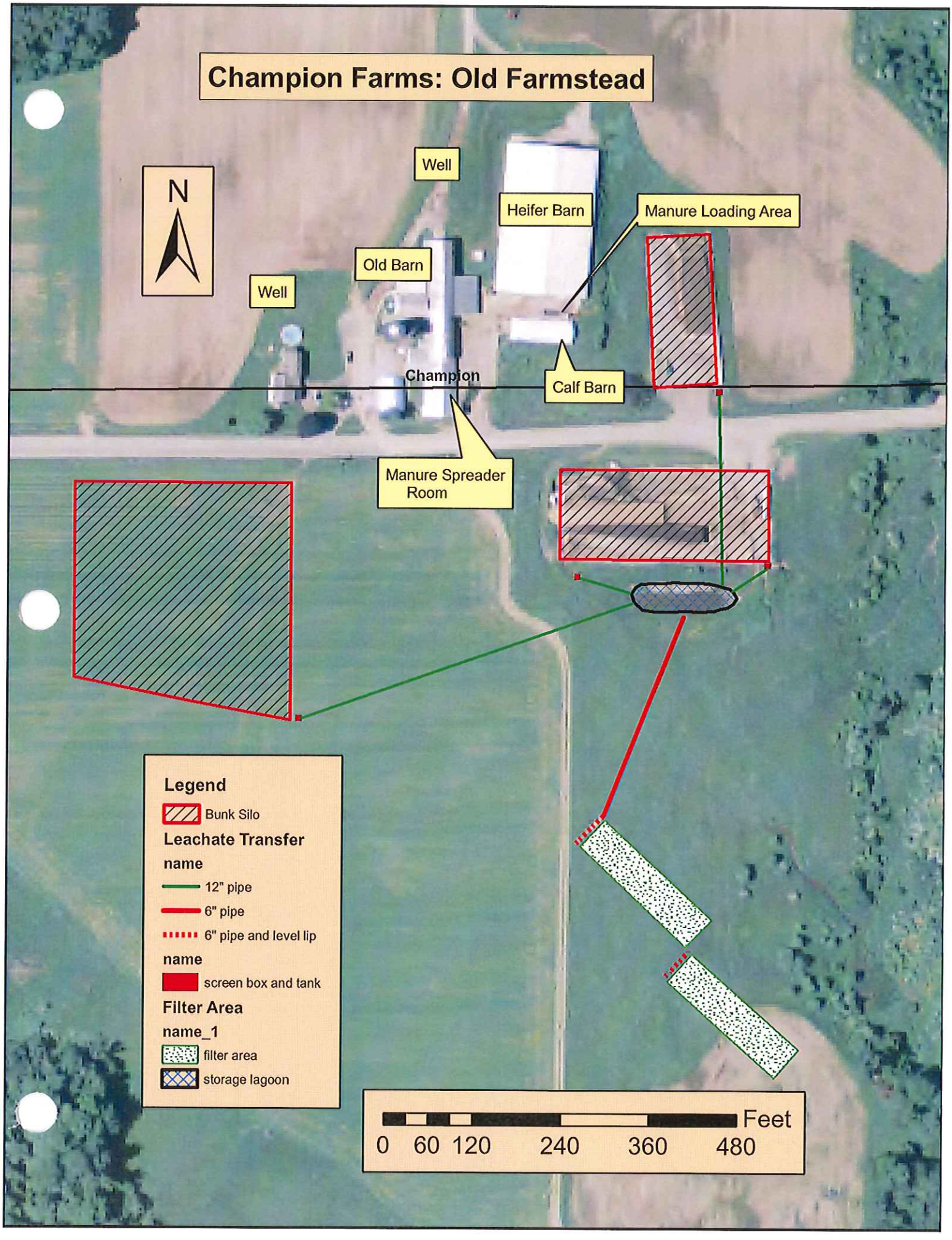
Champion Farms: Old Farmstead
N
Well
Heifer Barn
Manure Loading Area
Old Barn
Well
Champion
Calf Barn
Manure Spreader Room
Legend
Bunk Silo
Leachate Transfer
name
12" pipe
6" pipe
6" pipe and level lip
name
screen box and tank
Filter Area
name_1
filter area
storage lagoon
Feet
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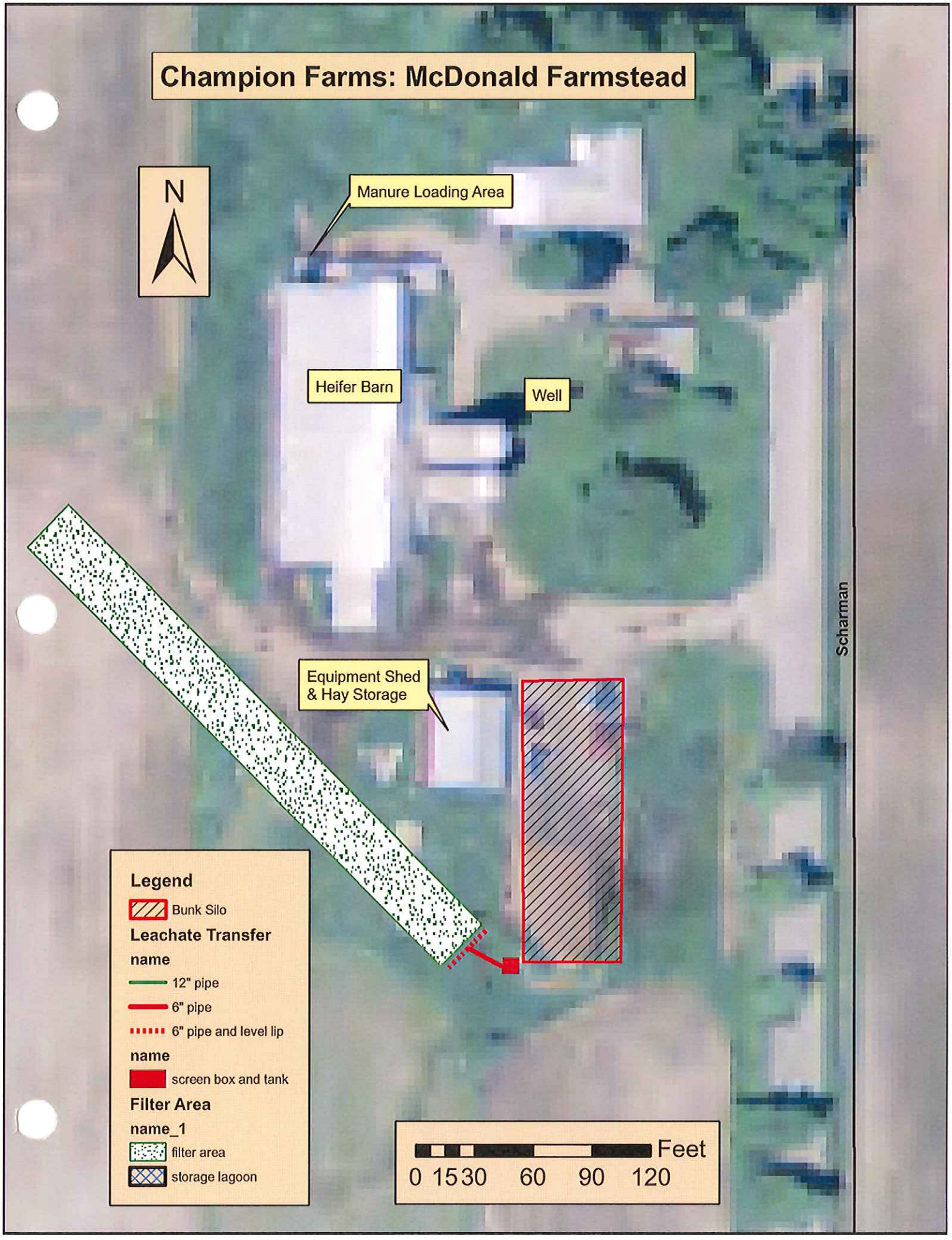
Champion Farms: McDonald Farmstead
N
Manure Loading Area
Heifer Barn
Well
Scharman
Equipment Shed & Hay Storage
Legend
Bunk Silo
Leachate Transfer
name
12" pipe
6" pipe
6" pipe and level lip
name
screen box and tank
Filter Area
name_1
filter area
storage lagoon
Feet
0 15 30 60 90 120